

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

<i>Complete If Known</i>	
Application Number	(unassigned)
Filing Date	January 30, 2002
First Named Inventor	Calvin F. Quate
Group Art Unit	TBD
Examiner Name	TBD
Attorney Docket Number	3053.1C

U.S. PATENT DOCUMENTS

RECEIVED

NOV 26 2002

~~TECH CENTER 1600/2900~~

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**



Date
Considered

9-16-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

3

Complete if Known

Application Number	(unassigned)
Filing Date	January 30, 2002
First Named Inventor	Calvin F. Quate
Group Art Unit	TBD
Examiner Name	TBD
Attorney Docket Number	3053.1C

Sheet

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	O	BERGER et al., Surface Stress in the Self-Assembly of Alkanethiols on Gold, Science, Jun. 27, 1997 Vol. 276, p. 2021	
	P	BERGER et al., Nanometers, Picowatts, Femtojoules: Thermal Analysis and Optical Spectroscopy Using Micromechanics, Analytical Methods & Instrumentation, Special Issue, mu.TAS '96	
	Q	GIMZEWSKI et al., Observation of a Chemical Reaction Using a Micromechanical Sensor, Chemical Physics Letters, Vol. 217, No. 5, Jan. 28, 1994	
	R	MINNE et al., Automated Parallel High-Speed Atomic Force Microscopy, Applied Physics Letters, Vol. 78, No. 18, May 4, 1998	
	S	MANALIS et al., Interdigital Cantilevers for Atomic Force Microscopy, Applied Physics Letters, Vol. 69, No. 25, Dec. 16, 1996	
	T	LANG et al, Sequential Position Readout from Arrays of Micromechanical Cantilever Sensors, Applied Physics Letters, Vol. 73, p. 383, 1998	
	U	MANALIS et al., Two Dimensional Micromechanical Bimorph Arrays for Detection of Thermal Radiation, Applied Physics Letters, Jun. 16, 1997	
<i>z</i>	V	YU et al., Molecular Wires attached to DNA Oligonucleotides for Electronic Detection of Nucleic Acids, Abstracts of Papers of the American Chemical Society, 1999, Vol. 217, No. 1, Mar. 21, 1999	
<i>z</i>	W	YU et al., Ribose-attached Ferrocene DNA Oligonucleotides for Electronic Detection of Nucleic Acids, Abstracts of Papers of the American Chemical Society, 1999, Vol. 217, No. 1, Mar. 21, 1999	
<i>z</i>	X	YU et al., Uridine-conjugated Ferrocene DNA Oligonucleotides for Electronic Detection of Nucleic Acids, Abstracts of Papers of the American Chemical Society, 1999, Vol. 217, No. 1, Mar. 21, 1999	
<i>z</i>	Y	TERBREUGGEN et al., Electrochemical Detection of Unlabeled Target DNA, Abstracts of Papers of the American Chemical Society, 1999, Vol. 218, 1, Aug 22, 1999	

Examiner Signature	<i>[Signature]</i>	Date Considered	<i>9-16-04</i>
--------------------	--------------------	-----------------	----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

*RECEIVED**NOV 26 2002**TECH CENTER 1600/2900*

I Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<p>Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.</p> <p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(use as many sheets as necessary)</i></p>			
Complete If Known			
Application Number		(Unassigned)	
Filing Date		January 30, 2002	
First Named Inventor		Calvin F. Quate	
Group Art Unit		TBD	
Examiner Name		TBD	
Sheet	3	of	3
Attorney Docket Number			
3053.1C			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Signature		Date Considered	9-16-04
-----------------------	---	--------------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.